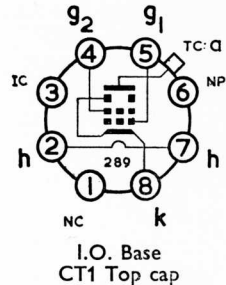


LINE OUTPUT BEAM TETRODE



GENERAL

This valve is an output beam tetrode primarily intended for use in both stabilised and non-stabilised time base output stages of AC/DC, 405/625 line television receivers with series connected heaters.

Heater Current	I_h	0.3	A
Heater Voltage	V_h	25	V

RATINGS

Maximum Anode Dissipation	$P_a(\max)$	See rating chart
Maximum Screen Grid Dissipation	$P_{g2}(\max)$	See rating chart
Maximum Peak Anode Voltage (Pulse positive)	$V_{a(pk)\max}$	7*† kV
Maximum Anode Supply Voltage	$V_{a(b)\max}$	550 V
Maximum Anode Voltage	$V_a(\max)$	250 V
Maximum Peak Screen Grid Voltage (Pulse negative)	$V_{g2(pk)\max}$	2* kV
Maximum Screen Grid Voltage	$V_{g2}(\max)$	250 V
Maximum Heater to Cathode Voltage (R.M.S.)	$V_{h-k(r.m.s.)\max}$	200‡ V
Maximum Cathode Current	$I_k(\max)$	200 mA
Maximum Grid to Cathode Resistance	$R_{g1-k}(\max)$	3.3** MΩ

* The pulse ratings are for television line scan where the applied voltage pulse does not exceed 22 per cent of one scanning cycle or 18 μ s duration.

** For television line scan applications.

† 7 kV is a design centre rating, the absolute rating of 8.5 kV must not be exceeded.

‡ Measured with respect to the higher potential heater pin.

INTER-ELECTRODE CAPACITANCES

Grid 1 to Earth	C_{in}	§ 18	φ 18.5	20	pF
Anode to Earth	C_{out}	11	12	12	pF
Anode to Grid 1	C_{a-g1}	0.25	0.3	0.3	pF

§ In fully shielded socket without can.

φ With holder capacitance balanced out. (Holder as below.)

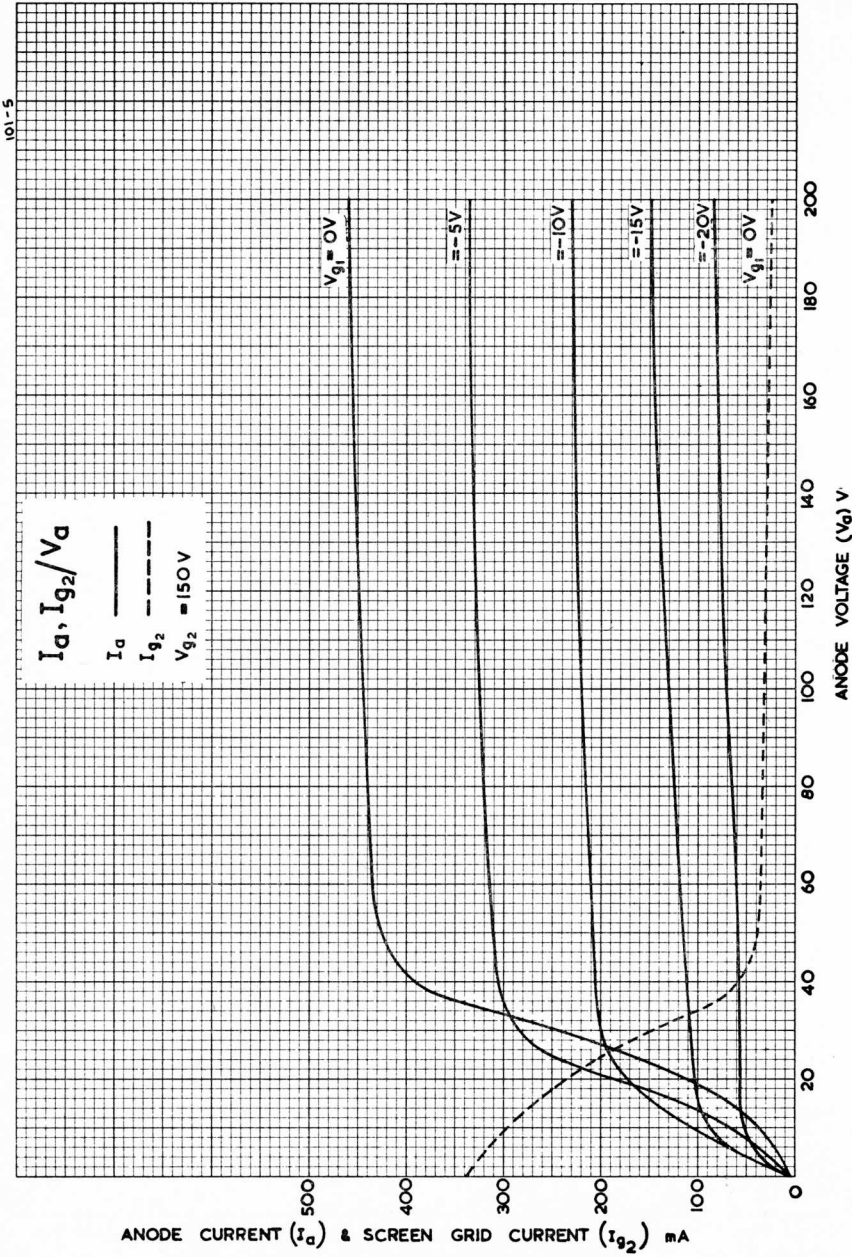
|| Total capacitance including McMurdo amphenol international octal holder type B8/U. "Earth" denotes the remaining earthy potential electrodes, heater and shields joined to cathode.

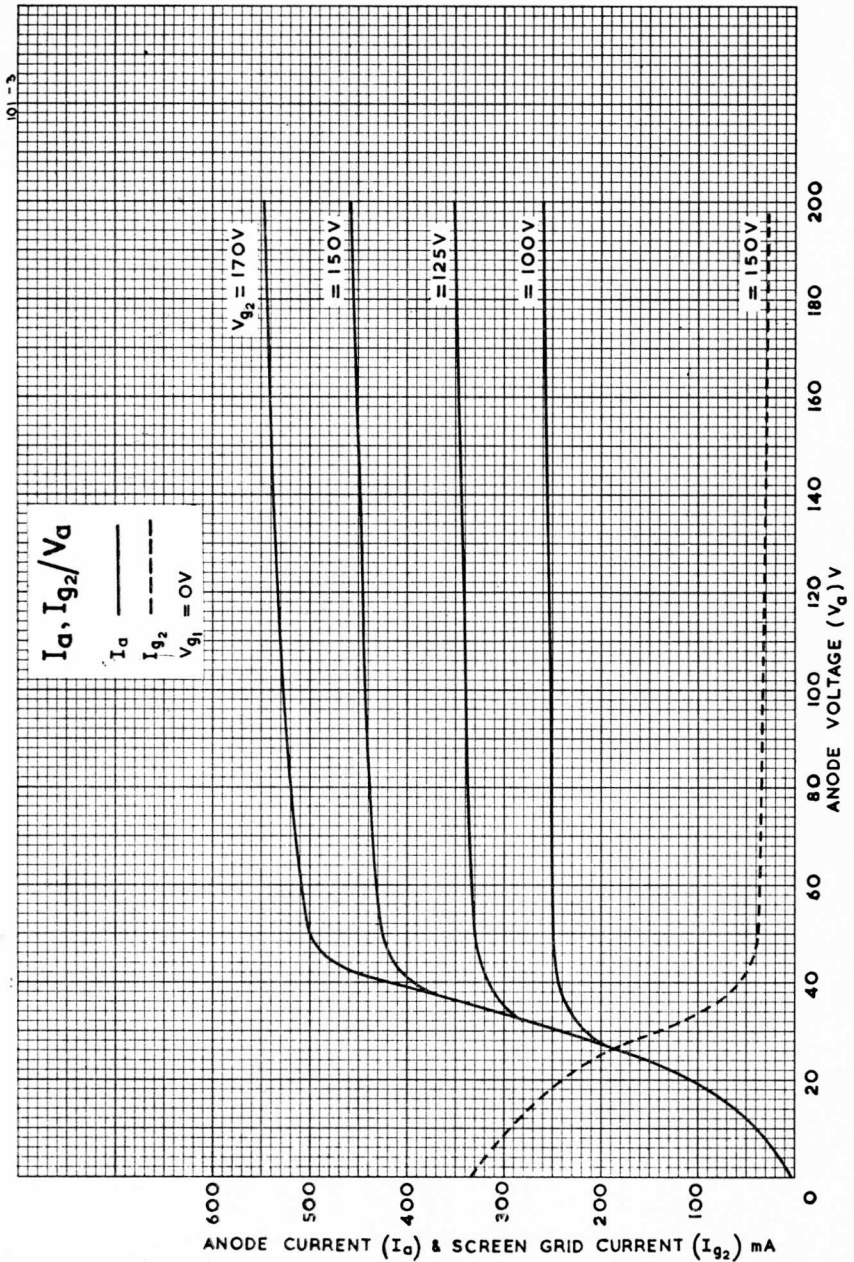
MOUNTING POSITION—Unrestricted

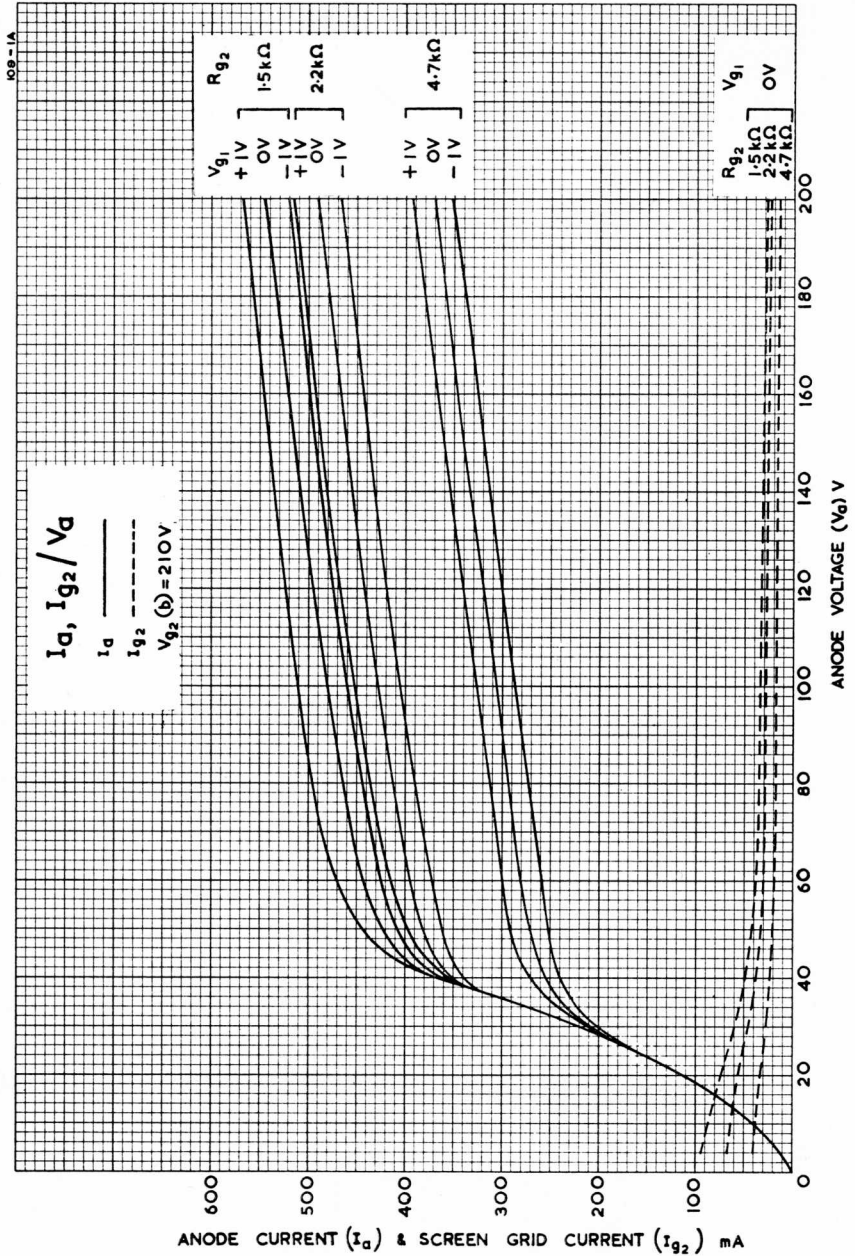
If mounted horizontally it is recommended that pins 4 and 8 should be in a vertical plane.

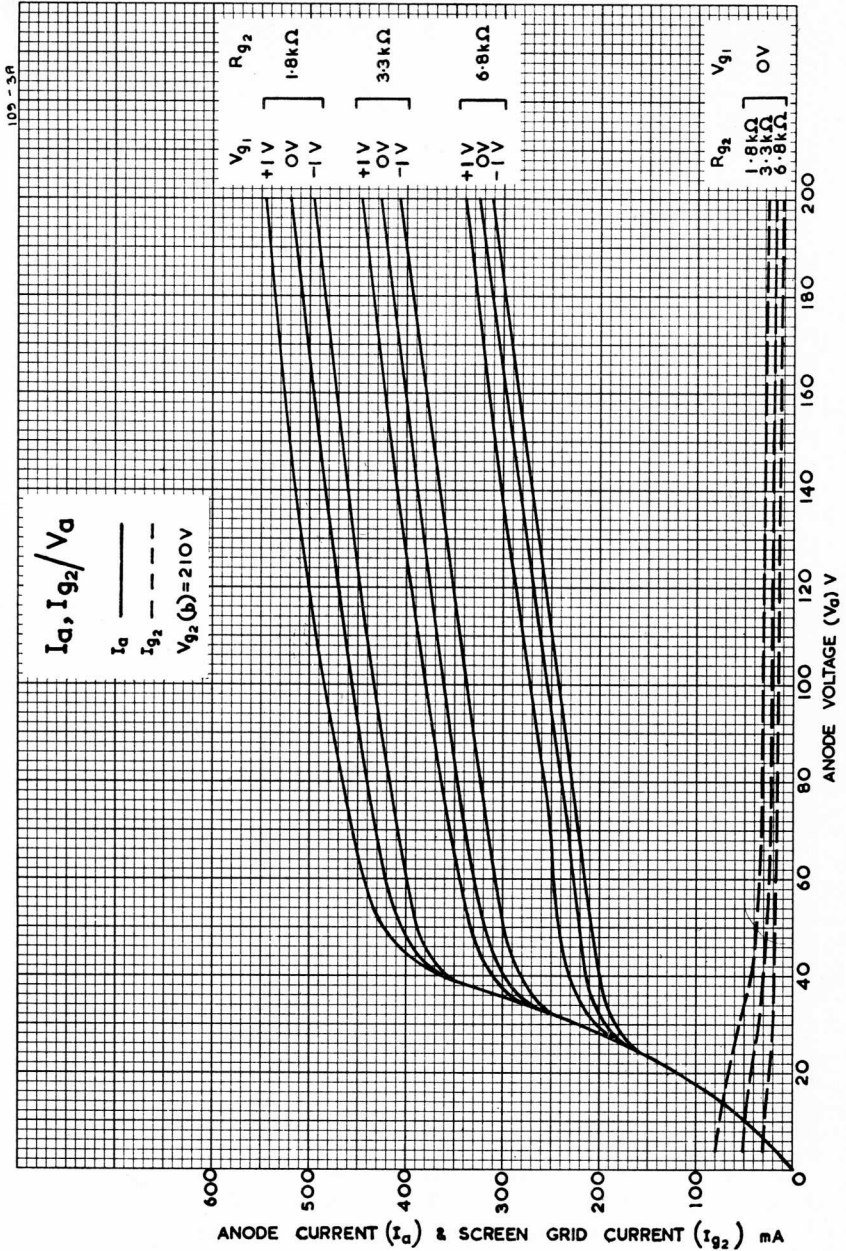
APPROXIMATE WEIGHT

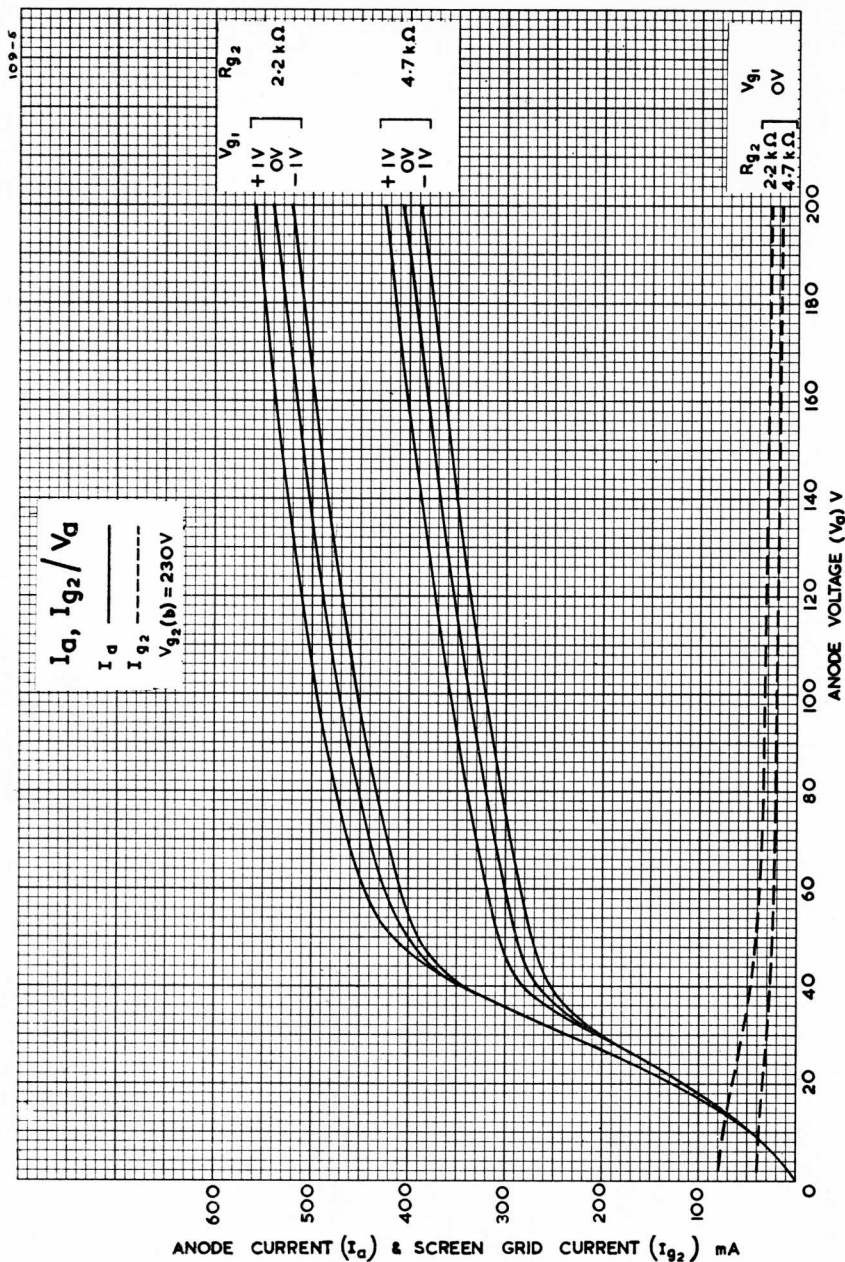
Net	1.5	oz
Packed	4	oz

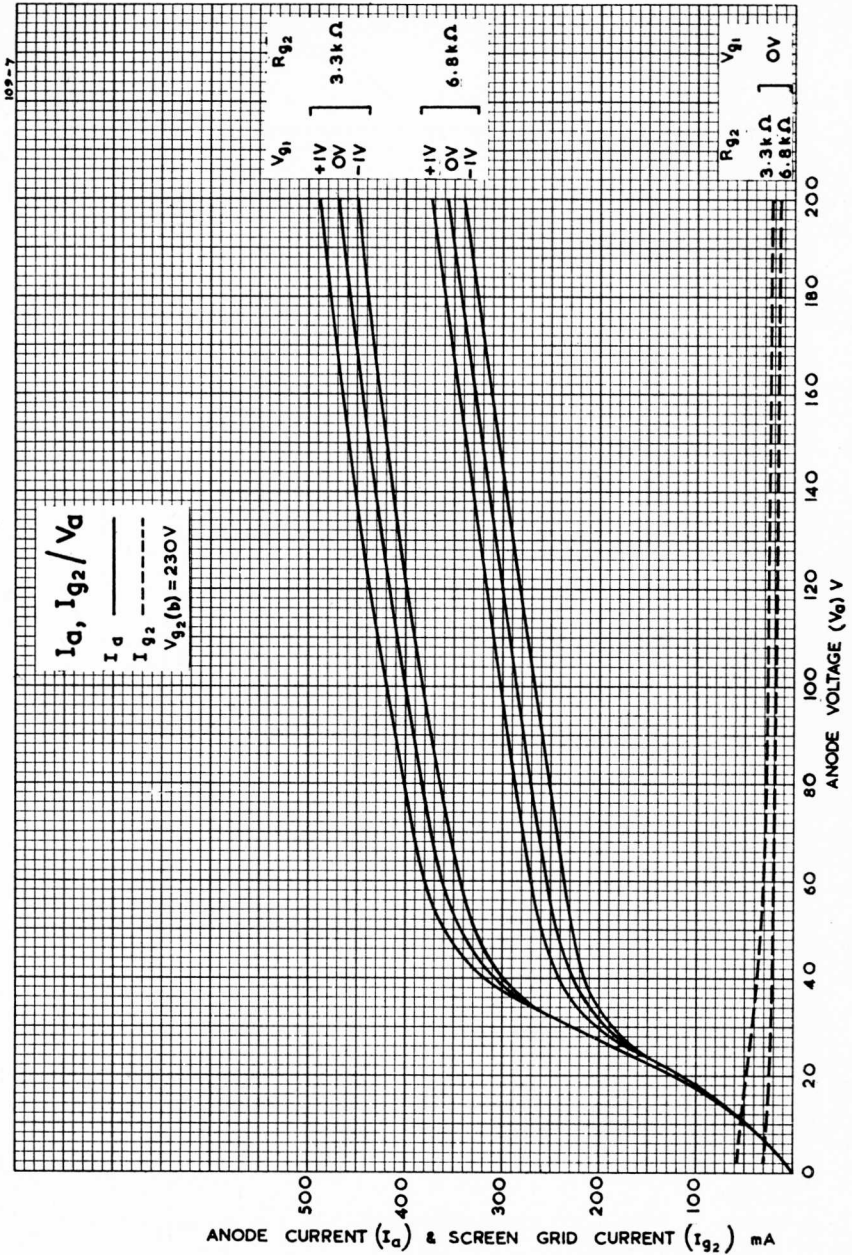


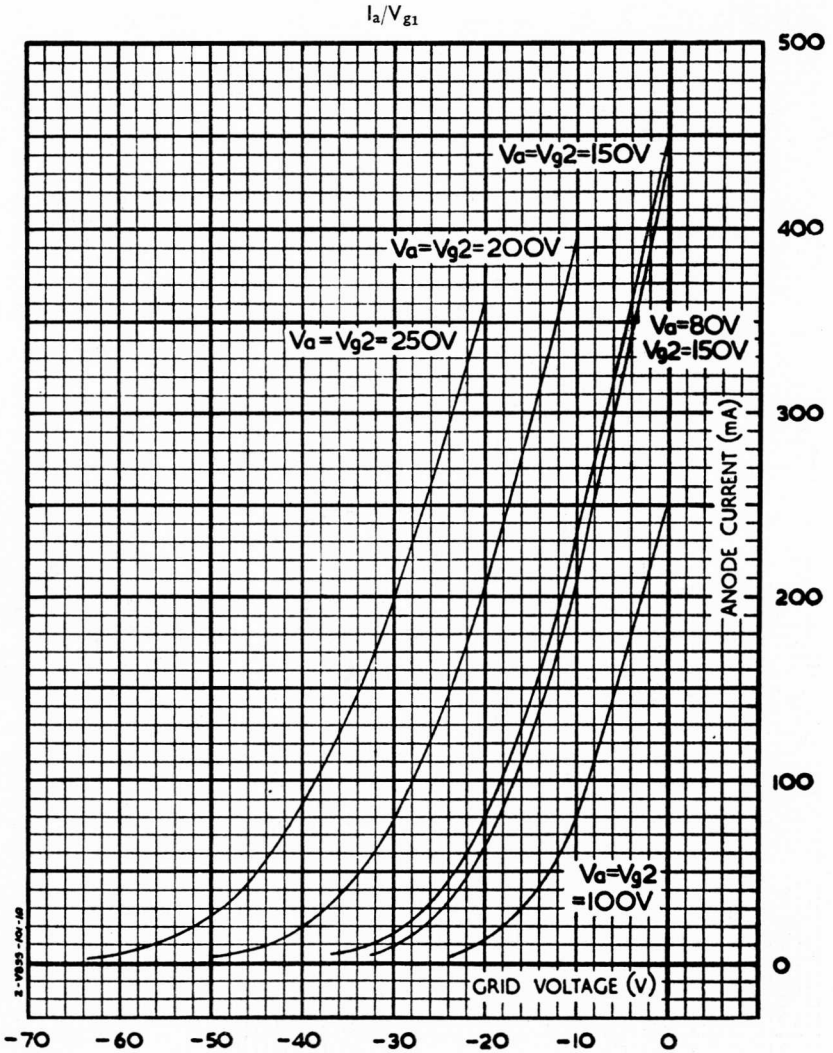


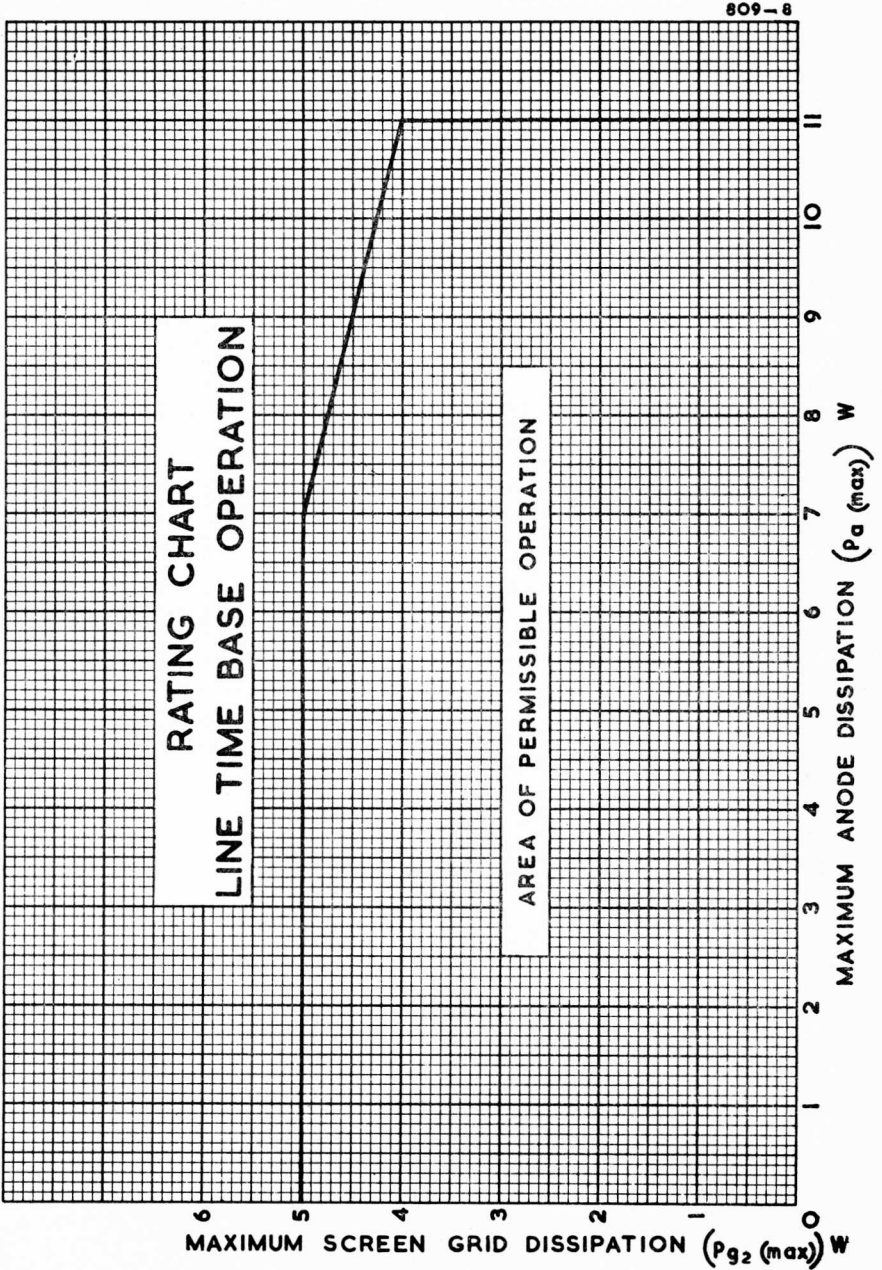


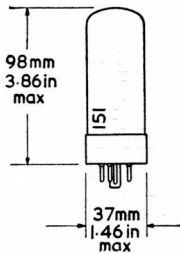




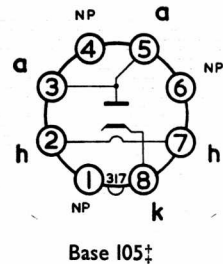








HALF-WAVE RECTIFIER



GENERAL

This indirectly heated half-wave rectifier is for use in television receivers employing series connected 0.3A heaters.

Heater Current	I_h	0.3	A
Heater Voltage	V_h	29.0	V

RATINGS

Maximum Peak Inverse Voltage	PIV_{max}	700	V
Maximum Anode Voltage (R.M.S.)	$V_a(r.m.s.)_{max}$	250	V
Maximum Mean Anode Current	$I_a(av)_{max}$	325	mA
Maximum Peak Anode Current	$i_a(pk)_{max}$	2.6	A
Maximum Surge Anode Current	$i_a(surge)_{max}$	9.5	A
Maximum Reservoir Capacitor	C_{max}	200	μF
Maximum Peak Heater to Cathode Voltage	$V_{h-k(pk)_{max}}$	625*	V

* Measured with respect to the higher potential heater pin.

Maximum D.C. component = 275V, Maximum A.C. component = 250V r.m.s.

TYPICAL OPERATION†

Input Anode Voltage (R.M.S.)	$V_{in(r.m.s.)}$	200	210	220	230	240	250	V
Output Current	I_{out}	325	325	295	270	240	220	mA
Reservoir Capacitor	C	200	200	200	200	200	200	μF
Minimum Surge limiting resistance	$R_{lim(min)}$	15	17	19	21	23	25	Ω
Output Voltage	V_{out}	209	219	234	249	264	280	V

† For television receiver conditions see curves.

MOUNTING POSITION—Unrestricted.

‡ Some PY33 valves may have an I07 base having pins 1 and 6 : NC.